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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/833,336	04/12/2001	Corene Casper	AUS920000843US1 3773		
. 7590 03/26/2004			EXAMINER		
Duke W. Yee			IQBAL, NADEEM		
Carstens, Yee &				DADED AND OPEN	
P.O. Box 802334			ART UNIT	PAPER NUMBER	
Dallas, TX 75380			2114	7	
			DATE MAILED: 03/26/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

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Application No. O/Rice Action Summary Office Action Summary Examiner Nadem Iqbal 2114 - The MAILING DATE of this communication appears on the cover sheet with the correspondence address - Period for Repty A SHORTENEO STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE of THIS COMMUNICATION. 1- Elements of time may be available under the previous of 2 CFR 1.13(b). In revent, involvement, may a righty be limity field alians 13(c) MAINTS done the mility and set des communication and are stated to the provision of 3 CFR 1.13(b). In the event, involvement, may a righty be limity field alians 13(c) MAINTS done the mility does do 46s communication and the provision of Claims 4) □ Claim(s) 1.29 Israe pending in the application. 4a) Of the above claim(s) israe allowed. 5) □ Claim(s) 1.29 Israe allowed. 5) □ Claim(s) 1.29 Israe allowed. 6) □ Claim(s) 1.29 Israe allowed. 6) □ Claim(s) 1.29 Israe allowed. 6) □ Claim(s) 1.29 Israe allowed. 7) □ Claim(s) 2.6 and 8 Israe objected to by the Examiner. 7) □ The drawing(s) filed on				So				
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Application/Control Number: 09/833,336

Art Unit: 2114

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 3. Claims 1, 3, 4, 7, 9 & 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Song et al., (U.S. Patent number 6003129).
- 4. As per claims 1 & 10, Song teaches (col. 2, lines 38-40) a multiprocessor computer system with definition of interrupt and exception handling where a data processor detects exceptions but defer exception interrupt and exception handling operations to another processor called a control processor. He thus teaches limitations pertain to event handling in a multiprocessor system that comprises encountering an event by one processor in the multiprocessor system. He also teaches (col. 2, lines 55-57) a data processor that enters an idle

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state upon reset and when an exception is detected. He thus teaches limitations pertains to stopping at least one other processor of the system. He does not explicitly discloses stopping at least one processor by forcing the at least one other processor to fetch instructions from a copy of an operating system kernel having at least one breakpoint. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to realize that Song also teaches to stop at least one processor by forcing the at least one other processor to fetch instructions from a copy of an operating system kernel, since he teaches as stated above that the data processor detects exceptions but defer exception interrupt and exception handling operations to another processor called a control processor which executes (col. 2, lines 47-49) operating system programs such as interrupt and exception handling, therefore the control processor would be forced to fetch instructions from a copy of an operating system kernel having at least one breakpoint.

Allowable Subject Matter

- 5. Claims 11-29 allowed.
- 6. Claims 2, 5, 6, 8 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 7. As per claim 3, He teaches as stated above that the data processor detects exceptions but defer exception interrupt and exception handling operations to another processor called a control processor which executes (col. 2, lines 47-49) operating system programs such as interrupt and exception handling, therefore the caches of the at least one other processor (data processor)

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would have to be flushed in order for the control processor to start to execute operating system programs such as interrupt and exception handling.

- 8. As per claims 4 & 7, He already teaches one another processor called a control processor which executes (col. 2, lines 47-49) operating system programs such as interrupt and exception handling, therefore upon encountering a breakpoint, the control processor would enter a breakpoint handler.
- 9. As per claim 9, Song teaches as stated per claim 1 above a data processor detects exceptions but defer exception interrupt and exception handling operations to another processor called a control processor, therefore would not support the use of non-maskable interrupts.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nadeem Iqbal whose telephone number is (703)-308-5228. The examiner can normally be reached on M-F (8:00-5:30) First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert W Beausoliel can be reached on (703)-305-9713. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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